



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
06/787,692	10/15/85	NILSSEN	O

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EXAMINER	
BEHA JR & W	
ART UNIT	PAPER NUMBER
212	45
DATE MAILED: 06/16/86	

This is a communication from the examiner in charge of your application.

COMMISSIONER OF PATENTS AND TRADEMARKS

This application has been examined  Responsive to communication filed on 4/3/86  This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), \_\_\_\_\_ days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

**Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:**

1.  Notice of References Cited by Examiner, PTO-892. 2.  Notice re Patent Drawing, PTO-948.  
3.  Notice of Art Cited by Applicant, PTO-1449 4.  Notice of informal Patent Application, Form PTO-152  
5.  Information on How to Effect Drawing Changes, PTO-1474 6.

**Part II SUMMARY OF ACTION**

1.  Claims 130 - 135 are pending in the application.

Of the above, claims \_\_\_\_\_ are withdrawn from consideration.

2.  Claims \_\_\_\_\_ have been cancelled.

3.  Claims \_\_\_\_\_ are allowed.

4.  Claims 130 - 135 are rejected.

5.  Claims \_\_\_\_\_ are objected to.

6.  Claims \_\_\_\_\_ are subject to restriction or election requirement.

7.  This application has been filed with informal drawings which are acceptable for examination purposes until such time as allowable subject matter is indicated.

8.  Allowable subject matter having been indicated, formal drawings are required in response to this Office action.

9.  The corrected or substitute drawings have been received on \_\_\_\_\_. These drawings are  acceptable;  not acceptable (see explanation).

10.  The  proposed drawing correction and/or the  proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_ has (have) been  approved by the examiner.  disapproved by the examiner (see explanation).

11.  The proposed drawing correction, filed \_\_\_\_\_, has been  approved.  disapproved (see explanation). However, the Patent and Trademark Office no longer makes drawing changes. It is now applicant's responsibility to ensure that the drawings are corrected. Corrections MUST be effected in accordance with the instructions set forth on the attached letter "INFORMATION ON HOW TO EFFECT DRAWING CHANGES", PTO-1474.

12.  Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has  been received  not been received  been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.

13.  Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14.  Other

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There being no amendment to the claims, claims 130-135 are rejected under 35 USC 112, second paragraph for the reasons stated on pages 2-4 of the last Office action.

Similarly, claims 130, 134 and 135 are rejected under 35 USC 103 for the reasons stated on pages 4 and 5 of the last Office action.

Applicant's arguments filed April, 3, 1986 have been fully considered but they are not deemed to be persuasive.

At the outset, it is noted applicant has offered to amend claim 130 without actually doing so (Remarks, page 5). The Office considers the claims as they are, not as they might be amended, and thus the hypothetical amendment will not be further considered.

As to the Remarks, page 4, para. (a), the AC output terminals are interpreted to mean the inverter output terminals across which a trapazoidal wave appears. It is appropriate to note here a common problem with applicant's claims giving rise to this type of confusion, namely, that claim 130 as well as the remaining claims are simply incomplete, failing to recite sufficient meaningful structure and interrelationships between the structure to "particularly point <sup>out</sup> and distinctly claim" the invention, including a relationship between AC output terminals and the inverter.

Art Unit 212

As to the issue of trapezoidal waveforms (pages 4 and 5), applicant himself has earlier claimed a trapezoidal waveshape, see for example claim 122. The loose, use of squarewave voltage and trapezoidal waveform in the same case remains confusing.

As to page 5, paragraph c, connecting an LC circuit to a node does not make a complete circuit.

As to page 5, paragraph d, claims are given their broadest reasonable consideration in prosecution before the Office, and it is believed that the examiner's interpretation is reasonable.

As to page 9 and the motivation issue, it would have been obvious to use a voltage multiplier/full wave rectifier arrangement feeding an inverter for use with diverse input voltage sources, as in Rhoads. Any connection to ground as a result of this expedient follows naturally and thus obviously from the use of such a well known input rectifier/multiplier arrangement.

Lastly, as to the argument about non-analogous art (page 10), it suffices to say that the three references are all classified in Class 363, the conversion art, and that one skilled in the conversion art would be expected to know their content, their teachings and their suggestions.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). The practice of automatically extending the shortened statutory period an additional month upon the filing of a timely first response to a final rejection has been discontinued by the Office. See 1021 TMOG 35.

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A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 CFR 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication should be directed to William H. Beha at telephone number 703-557-5052.

Beha/dc

703/557/5052

6/4/86

*William H. Beha*

WILLIAM H. BEHA, JR.  
SENIOR EXAMINER  
GROUP ART UNIT 212